Performance Data Sheet

AE4430U-AA1A

General Information

Model	AE4430U-AA1A	**Refrigerant**	R-290
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	1990	1760	1590	1460	1350	1230	1090
	Watts	226	240	251	259	267	276	287
	Amps	3.16	3.27	3.34	3.40	3.44	3.49	3.54
	Lb/h	13.3	12.3	11.7	11.3	11.1	10.8	10.3
10	Btu/h	2290	2010	1800	1640	1510	1390	1240
	Watts	230	247	260	271	280	290	302
	Amps	3.15	3.29	3.39	3.47	3.53	3.58	3.64
	Lb/h	15.4	14.1	13.3	12.8	12.5	12.2	11.7
15	Btu/h	2620	2300	2050	1850	1700	1550	1410
	Watts	232	252	268	281	293	304	317
	Amps	3.13	3.30	3.43	3.53	3.60	3.67	3.75
	Lb/h	17.8	16.2	15.2	14.5	14.1	13.7	13.3
20	Btu/h	3000	2620	2320	2090	1900	1740	1580
	Watts	232	256	275	290	304	318	332
	Amps	3.10	3.30	3.45	3.58	3.68	3.76	3.85
	Lb/h	20.4	18.5	17.2	16.4	15.8	15.4	15.0
25	Btu/h	3420	2970	2620	2350	2130	1940	1760
	Watts	231	258	280	299	315	330	346
	Amps	3.05	3.28	3.47	3.62	3.74	3.85	3.95
	Lb/h	23.4	21.1	19.6	18.5	17.8	17.3	16.8
30	Btu/h	3880	3360	2960	2640	2380	2160	1960
	Watts	228	259	284	306	324	342	360
	Amps	2.98	3.26	3.48	3.66	3.81	3.93	4.05
	Lb/h	26.7	24.1	22.2	20.8	19.9	19.3	18.8
35	Btu/h	4370	3790	3320	2950	2650	2400	2170
	Watts	222	257	286	311	333	353	373
	Amps	2.90	3.22	3.47	3.69	3.86	4.01	4.15
	Lb/h	30.3	27.3	25.0	23.4	22.3	21.5	21.0
40	Btu/h	4910	4260	3720	3290	2940	2650	2400
	Watts	215	254	287	315	340	363	386
	Amps	2.81	3.17	3.46	3.71	3.91	4.09	4.25
	Lb/h	34.3	30.8	28.2	26.3	25.0	24.0	23.3

45	Btu/h	5500	4760	4160	3660	3260	2930	2640
	Watts	205	248	286	318	346	372	397
	Amps	2.70	3.10	3.44	3.72	3.95	4.16	4.34
	Lb/h	38.7	34.7	31.7	29.5	27.8	26.7	25.8
50	Btu/h	6130	5310	4630	4070	3610	3220	2900
	Watts	192	241	282	318	350	379	407
	Amps	2.58	3.02	3.40	3.72	3.99	4.23	4.44
	Lb/h	43.4	39.0	35.6	32.9	31.0	29.6	28.6
55	Btu/h	6800	5890	5130	4500	3980	3540	3170
	Watts	177	231	277	317	353	386	417
	Amps	2.44	2.93	3.35	3.71	4.02	4.29	4.53
	Lb/h	48.6	43.7	39.7	36.7	34.4	32.8	31.5
60	Btu/h	7520	6520	5670	4970	4380	3880	3470
	Watts	159	218	269	314	354	390	424
	Amps	2.28	2.83	3.29	3.70	4.04	4.35	4.62
	Lb/h	54.2	48.7	44.3	40.8	38.2	36.2	34.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.632427E+03	-1.505801E+02	1.353660E-01	4.704467E+01
C2	1.779887E+02	-5.656974E+00	-6.552221E-02	1.144709E+00
C3	-1.484241E+02	9.443378E+00	7.661840E-02	-9.443410E-01
C4	1.464878E+00	-6.449507E-02	-6.358280E-04	9.833943E-03
C5	-2.331017E+00	1.165603E-01	1.174876E-03	-1.530802E-02
C6	1.215502E+00	-7.881593E-02	-6.308821E-04	8.200977E-03
C7	1.180014E-03	-1.717046E-04	-2.676983E-07	2.015445E-05
C8	-9.273322E-03	4.747097E-04	4.518884E-06	-5.939760E-05
C9	8.981379E-03	-3.887864E-04	-3.988400E-06	6.459784E-05
C10	-3.544739E-03	2.351168E-04	1.800440E-06	-2.430878E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature